Abstract

In this paper we present the various elementary traversal approaches for mining association rules. We start with a formal definition of association rule and its basic algorithm. We then discuss the association rule mining algorithms from several perspectives such as breadth first approach, depth first approach and Hybrid approach. Comparison of the various approaches is done in terms of time complexity and I/O overhead on CPU. Finally, this paper prospects the association rule mining and discuss the areas where there is scope for scalability.

References

- J. Han, J. Pei, and Y. Yin, 2000, Mining Frequent Patterns without Candidate Generation, Proc. of the ACM SIGMOD, Dallas, TX.
Efficiently Mining Frequent Itemsets using Various Approaches: A Survey

- J. Pei, J. Han, H. Lu, S. Nishio, S. Tang, and D. Yang, 2001, HMine: Hyper-Structure Mining of Frequent Patterns in Large Databases, Proc. of IEEE ICDM, San Jose, California.


- R. Agarwal, C. Aggarwal and V. V. Prasad, 2000, Depth first generation of long patterns, in Proc. of SIGKDD Conference.
Keywords
Frequent itemset mining; breadth first; depth first; hybrid approach